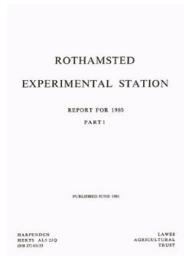


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Report for 1980 - Part 1

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Weather Tables Rothamsted

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Rothamsted Research (1981) *Weather Tables Rothamsted* ; Report For 1980 - Part 1, pp 284 - 284 -
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ROTHAMSTED WEATHER 1979-80

Latitude 51° 48' 30" N; Longitude 0° 21' 10" W; Altitude 128 m

| | 1979 | | | 1980 | | | | | | | | | | | | Year |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec | |
| TEMPERATURE (°C) | | | | | | | | | | | | | | | | |
| Mean screen maximum | 14.9 | 9.4 | 7.7 | 4.4 | 8.6 | 7.6 | 12.6 | 15.6 | 18.4 | 18.8 | 20.7 | 18.7 | 12.3 | 8.3 | 7.5 | 12.8 |
| Difference from average | +1.6 | +0.5 | +1.2 | -1.3 | +2.2 | -1.5 | +0.5 | -0.3 | -0.5 | -1.8 | +0.3 | +1.0 | -1.1 | -0.6 | +1.0 | -0.2 |
| Mean screen minimum | 7.1 | 2.4 | 2.7 | -0.9 | 1.6 | 1.1 | 3.4 | 5.2 | 9.2 | 9.9 | 11.4 | 10.3 | 4.7 | 3.1 | 1.4 | 5.0 |
| Difference from average | +1.2 | -0.3 | +1.7 | -1.0 | +1.2 | -0.2 | +0.2 | -1.0 | 0.0 | -1.2 | +0.5 | +1.2 | -1.2 | +0.4 | +0.4 | -0.1 |
| Soil at 10 cm | 10.1 | 5.2 | 4.6 | 1.0 | 4.1 | 3.6 | 7.2 | 10.8 | 14.5 | 14.4 | 15.9 | 13.8 | 7.9 | 5.3 | 3.6 | 8.5 |
| Dew point | 9.4 | 4.5 | 3.0 | 0.1 | 3.7 | 2.2 | 3.5 | 5.3 | 10.1 | 11.1 | 12.4 | 11.8 | 6.5 | 3.6 | 2.9 | 6.1 |
| No. of days with ground frost | 9 | 18 | 15 | 28 | 19 | 20 | 20 | 8 | 1 | 0 | 1 | 0 | 11 | 18 | 22 | 148 |
| RADIATION | | | | | | | | | | | | | | | | |
| Sunshine (h per month) | 117 | 63 | 52 | 71 | 54 | 83 | 149 | 213 | 178 | 160 | 154 | 143 | 129 | 68 | 58 | 1460 |
| Difference from average | +14 | +1 | +7 | +20 | -13 | -32 | -1 | +19 | -24 | -31 | -26 | -1 | +26 | +6 | +13 | -44 |
| Mean daily radiation (MJ m ⁻² day ⁻¹) | 6.9 | 3.1 | 2.1 | 2.9 | 4.3 | 6.8 | 12.6 | 17.7 | 18.0 | 14.9 | 13.4 | 10.9 | 6.7 | 3.1 | 2.1 | 9.5 |
| WIND (km day ⁻¹) | | | | | | | | | | | | | | | | |
| Wind run at 2 m | 158 | 217 | 294 | 206 | 191 | 254 | 228 | 229 | 184 | 177 | 172 | 178 | 219 | 323 | 314 | 223 |
| WATER (mm per month) | | | | | | | | | | | | | | | | |
| Rainfall (5 inch walled gauge) | 80 | 52 | 129 | 33 | 44 | 79 | 29 | 19 | 70 | 81 | 49 | 24 | 97 | 45 | 41 | 611 |
| Difference from average | +20 | -20 | +63 | -31 | -9 | +30 | -18 | -34 | +14 | +29 | -13 | -35 | +37 | -26 | -27 | -83 |
| Rain days | 15 | 17 | 20 | 13 | 14 | 20 | 10 | 6 | 19 | 16 | 8 | 11 | 18 | 18 | 17 | 170 |
| Drainage through 50 cm bare soil | 44 | 41 | 109 | 27 | 36 | 50 | 15 | TR | 2 | 33 | 17 | TR | 60 | 27 | 35 | 302 |
| Open water (tank) evaporation | 39 | 11 | 10 | 4 | 14 | 28 | 63 | 101 | 91 | 76 | 93 | 69 | 38 | 12 | 8 | 597 |
| Potential transpiration | 17 | 5 | 6 | 1 | 11 | 26 | 61 | 91 | 94 | 82 | 75 | 51 | 20 | 8 | 3 | 523 |

NOTES ON THE TABLE

- Except for potential evaporation, all quantities are measured.
- Drainage and evaporation are measured in inches.
- Drainage is through 50 cm bare undisturbed soil.
- Long period averages are for different periods: air temperatures 1878-1979; sunshine 1892-1979; rain 1948-79.